CW/HW#114: Determining Solutions

Geometry  
Due: Thursday, April 28th

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP:\_\_\_\_\_

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| Objective | You will be able to determine if a given coordinate pair is the solution to a given equation. | |
| 1. | | 2. |
| 3. Explain how you determined your answer to questions 1 and 2 above:   |  | | --- | |  | |  | |  | | | |
| 4. Based on your explination above, explain how you would determine the solution for the equation if you were given a cooridnate pair:  7a + b2 = 3   |  | | --- | |  | |  | | | |

Bronze

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| 4. For each coordinate pair below (a,b) , determine if it is a solution to the given equation or not.  7a + b2 = 3   1. (0,3) 2. (-4, ) 3. (-1, ) | 5. For each coordinate pair below (x,y) , determine if it is a solution to the given equation or not.   1. (4,4) 2. (1, 1 ) 3. (-2, 1/2) |
| 6. For each coordinate pair below (x,y) , determine if it is a solution to the given equation or not.   - 5x + 7  a) (20, - 248)    b) (11, -44)    c) (95, -458) | 7. For each coordinate pair below (x,y) , determine if it is a solution to the given equation or not.   1. (0, -4) 2. (15, 146) 3. (-10, 46) |
| 8. A student is looking at the graph below. The student sees that the point (1,2) lies on the line and states that it must be a solution to the equation. Prove whether this student is correct or incorrect by using the coordinate pair, plugging it into the function, and determining if it is indeed a solution. Show all work.  ../../../../../Desktop/Screen%20Shot%202016-04-23%20at%203.05.22%20PM | |

Silver   
Directions: Answer each multiple choice question below and provide an explanation of why your answer makes sense. If you are unsure of your answer, write down at least 3 questions you will ask a classmate tomorrow in class.

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| 9.  ../../../../../Desktop/Sol_1.png  F. x = -3 G. x = -3 and x = 3  H. x = 6  J. x = -3 and x = 6 K. x = -6 and x = 6  Answer:  Explanation: | ../../../../../Desktop/Sol_2.png10.   Answer: Explanation: |

Notes- Systems of Equations

Two or more equations are called a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.   
  
  
A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is an ordered pair that satisfies all equations in the system.   
  
  
Here is an example, (3,4) satisfies that system

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| Example 1  Determine whether (-5,-6) is a solution to the system  Solution: | |
| Directions: For parts a-d, determine whether each coordinate is a solution to the system of equations. Show all work. | |
| 13.     1. (-2, 5) 2. (2, - 5) 3. (-5,-2) 4. (-2,-5) | 14.     1. (-4, 1) 2. (1,-4) 3. (4,1) 4. (-4,-1) |
| 15.   1. (-3,1) 2. (-1, 3) 3. (3,1) 4. (-1,-3) | 16.   1. (-8,6) 2. (-4,-6) 3. (-8, -6 ) 4. (-4,-1) |

Solutions to Equations – Silver Problems Continued…

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| 11.  ../../../../../Desktop/Sol_3.png  Answer: Explanation: | 12. ../../../../../Desktop/Sol_4.png  Answer: Explanation: |
| 13.  ../../../../../Desktop/Sol_Diff1.png  Answer: Explanation: | 14.  ../../../../../Desktop/Sol_Diff4.png  A. x = 3  B. x = 0 and x = 1  C. x = 0  D. x = 0 and x = 3  E. x = -1 and x = 1  Answer: Explanation: |